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A tiny taxonomic thorn: *Brevianthus hypocanthidium* and *Aponardia huerlimannii* are one and the same

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Abstract

Brevianthus hypocanthidium and Aponardia huerlimannii are found to be synonymous and the new combination Brevianthus huerlimannii is made.

Introduction

In a recent paper a distinctive new species of *Brevianthus* was described from New Caledonia on the basis of material collected on Mont Kouakoue by the late Elizabeth Brown (Renner et al. 2015). The fact that a previously published name existed for this plant escaped our attention. The plant we described as *Brevianthus hypocanthidium* M.A.M.Renner & Engel was first recognised as a new species by Váňa and Grolle, who described it under the genus *Nardia* as *N. huerlimannii*, whose type is also from New Caledonia (Váňa 1970). Placement of *N. huerlimannii* within *Nardia* was tentative, neither author of *N. huerlimannii* was particularly happy with its generic placement, though no other genus was then available for what was undoubtedly a distinctive new species. *Nardia* is a member of the Gymnomitriaceae within suborder Jungermanniineae (Shaw et al 2015). *Brevianthus* belongs to the Brevianthaceae, an ally of Lophocoleaceae and Plagiochilaceae within suborder Lophocoleineae (Crandall-Stotler & Stotler 2000). Unfortunately, consideration of potential prior published names for Elizabeth Brown's plant was confined to suborder Lophocoleineae; a search within Gymnomitriaceae was considered unnecessary.

The type species of *Brevianthus* is from Tasmania, and was originally published as *Jackiella flava* Grolle (Grolle 1970). That similarities between the Tasmanian and New Caledonian plants, particularly their distinctive verrucose surface ornamentation, were overlooked is perplexing given that both species were authored or coauthored by Grolle and published in the same year (Grolle 1970, Váňa 1970). *Nardia huerlimannii* was placed in the new monotypic *Nardia* subgenus *Aponardia* R.M.Schust. by Schuster (2002), and though he too missed affinities with *Brevianthus*, he did state "I remain extremely skeptical that this can be retained in *Nardia*…" (Schuster 2002 p 360). *Nardia* subg. *Aponardia* was raised to generic rank, so removing *N. huerlimannii* from *Nardia*, by Váňa et al. (2012). Here we tranfer *Aponardia huerlimannii* to *Brevianthus* and provide the new combination. *Aponardia* (R.M.Schust.) Váňa and *Nardia* subgenus *Aponardia* R.M.Schust. follow their type species into synonymy of *Brevianthus* as a result of this transfer.

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Nomenclature

Brevianthus J.J.Engel & R.M.Schust., Phytologia 47: 317. 1981.

Type: *Brevianthus flavus* (Grolle) J.J.Engel & R.M.Schust., Phytologia 47: 318. 1981.

- = Nardia subg. Aponardia R.M.Schust., Nova Hedwigia Beiheft 119: 360. 2002, syn. nov.
- = *Aponardia* (R.M.Schust.) Váňa, Phytotaxa 65: 46. 2012, *syn. nov.*

Type: *Nardia huerlimannii* Váňa & Grolle, Oesterr. Bot. Z. 118: 233. 1970.

Brevianthus huerlimannii (Váňa & Grolle) M.A.M.Renner & J.J.Engel, comb. nov.

= Aponardia huerlimannii (Váňa & Grolle) Váňa, Phytotaxa 65: 46. 2012.

Basionym: Nardia huerlimannii Váňa & Grolle, Oesterr. Bot. Z. 118: 233. 1970.

Type: New Caledonia, "... Pic Buse ..., 500 m de la route vers la Montagne des Sources, 580 m," 30 Dec. 1950, Hürlimann 2227 (holotype: Z; isotype: PRC).

= *Brevianthus hypocanthidium* M.A.M.Renner & J.J.Engel, PhytoKeys 50: 46. 2015, *syn. nov.*

Type: New Caledonia, Province Sud, Mont Kouakoue, slightly west of base camp at helicopter landing site, without date, *E.A. Brown 2006/17* (holotype: NOU; isotypes: NSW, F).

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Shaw B, Crandall-Stotler B, Váňa J, Stotler RE, von Konrat M, Engel JJ, Davis EC, Long DG, Sova P, Shaw AJ (2015) Phylogenetic relationships and morphological evolution in a major clade of leavy liverworts (Phylum Marchatiophya, Order Jungermanniales): Suborder Jungermanniineae. *Systematic Botany* 40: 27–45 http://dx.doi.org/10.1600/036364415X686314

Váňa J (1970) A new species of liverwort from New Caledonia. *Oesterreichische Botanische Zeitschrift* 118: 233–236 http://dx.doi.org/10.1007/BF01377860

Váňa J, Söderström L, Hagborg A, von Konrat M (2012) Notes on Early Land Plants Today. 4. *Aponardia* gen. et stat. nov. *Phytotaxa* 65: 46 http://dx.doi.org/10.11646/phytotaxa.65.1.9

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